



Theme Implementation Plan for Governmental Units, and Administrative and Statistical Boundaries Theme

Activity Report for Third and Fourth Quarters of
Fiscal Year 2017

U.S. Census Bureau

Federal Geographic Data Committee (FGDC)

October 31, 2017



Governmental Units, and Administrative and Statistical Boundaries Theme Implementation Plan

FY17 Q3-Q4 Activity Report



Overview

As part of meeting the requirements under [OMB Circular A-16 Supplemental Guidance](#) and [OMB Circular A-16 Appendix E - NGDA Data Themes, Definitions, and Lead Agencies](#) for NGDA Portfolio Management and NGDA Theme Management, NGDA Themes Leads for a Theme, in coordination with associated NGDA Dataset Managers, have developed Theme Strategic Plans and corresponding implementation plans for each Theme in the NGDA Portfolio. This report provides information on implementing the goals, objectives, and actions outlined in the Theme's Strategic Plan (link below). The report includes information on Theme Personnel (Table 1), National Geospatial Data Asset (NGDA) datasets associated with the Theme (Table 2), and the human and financial resources needed to manage the Theme (Table 3). Table 4 provides a status update on progress made in the current reporting period toward meeting Theme Strategic Plan goals and objectives. Table 5 provides details on the Theme Implementation Plan.

Theme Strategic Plan

https://communities.geoplatform.gov/ngda-govunits/wp-content/uploads/2017/12/GOV_UNITS_THEME_Strategic_Plan_FINAL.pdf

Theme Personnel

Theme personnel play a vital role in the operation and maintenance of a Theme. They are "individuals who provide interdepartmental leadership and coordination at the NGDA Theme level. They work with component NGDA Dataset Managers to develop standards and provide guidance. The NGDA Theme Lead, or designee, chairs the NGDA Theme's Thematic Committee and manages the annual process of providing NGDA Dataset collaboration and funding recommendations to the FGDC Steering Committee for those NGDA Datasets within their NGDA Theme. Additionally, the NGDA Theme Lead reports to the Executive NGDA Theme Champion and the FGDC Coordination Group on the NGDA Theme's activities and investments (both current and planned)." Table 1 provides a summary of current Theme Personnel followed by Table 2 that lists the NGDA Datasets that comprise the Theme.

Theme Personnel	
Theme Lead:	Dierdre Bevington-Attardi
Theme Lead Agency:	U.S. Census Bureau
Executive Theme Champion:	Deirdre Bishop
Executive Champion Agency:	U.S. Census Bureau

Table 1. Personnel Involved in Theme Management.

Governmental Units, and Administrative and Statistical Boundaries Theme NGDA Datasets	NGDA Agency
115th Congressional District	Department of Commerce/ U.S. Census Bureau
2010 Census 5-digit ZIP Code Tabulation Area ¹	Department of Commerce/ U.S. Census Bureau
2010 Census Population & Housing Unit Counts	Department of Commerce/ U.S. Census Bureau
2010 Census Public Use Microdata Area	Department of Commerce/ U.S. Census Bureau
2010 Census Urban Area	Department of Commerce/ U.S. Census Bureau
2010 Census Urban Growth Area	Department of Commerce/ U.S. Census Bureau
2010 Census Voting District	Department of Commerce/ U.S. Census Bureau
Alaska Native Regional Corporation (ANRC)	Department of Commerce/ U.S. Census Bureau
American Indian Tribal Subdivision	Department of Commerce/ U.S. Census Bureau
American Indian/Alaska Native/Native Hawaiian	Department of Commerce/ U.S. Census Bureau
BLM Administrative Unit Boundary Polygons	Department of Interior/ Bureau of Land Management (BLM)
BLM Administrative Unit Office Points	Department of Interior/ Bureau of Land Management (BLM)
Block Group	Department of Commerce/ U.S. Census Bureau
Census Block	Department of Commerce/ U.S. Census Bureau
Census Bureau Regional Office Boundaries	Department of Commerce/ U.S. Census Bureau
Census Tract	Department of Commerce/ U.S. Census Bureau
Combined New England City and Town Area	Department of Commerce/ U.S. Census Bureau
Combined Statistical Area	Department of Commerce/ U.S. Census Bureau
Consolidated City	Department of Commerce/ U.S. Census Bureau
County and Equivalent	Department of Commerce/ U.S. Census Bureau
County Subdivision	Department of Commerce/ U.S. Census Bureau
Elementary School Districts	Department of Commerce/ U.S. Census Bureau
EPA Facility Locations and Regional Boundaries	U.S. Environmental Protection Agency (EPA)
Estate (U.S. Virgin Islands)	Department of Commerce/ U.S. Census Bureau
HUD Entitlement Grantee Jurisdiction	Department of Housing and Urban Development (HUD)
International Boundary United States Mexico Minute 315	Department of State/ International Boundary and Water (IBWC)
Metropolitan Division	Department of Commerce/ U.S. Census Bureau
Metropolitan Statistical Area/Micropolitan Statistical Area	Department of Commerce/ U.S. Census Bureau
National Weather Service County Warning Area Boundaries²	Department of Commerce/ National Oceanic and Atmospheric Administration (NOAA)
NECTA Division	Department of Commerce/ U.S. Census Bureau
New England City and Town Area	Department of Commerce/ U.S. Census Bureau

¹ All dataset names preceded with the “2010” designation for current year or vintage refers to datasets and corresponding results of the 2010 decennial census exclusively except for the “Urban Growth Area.”

² NGDA removed effective June 30, 2017.

Place ³	Department of Commerce/ U.S. Census Bureau
Secondary School District	Department of Commerce/ U.S. Census Bureau
State and Equivalent	Department of Commerce/ U.S. Census Bureau
State Legislative District (SLD) Lower Chamber	Department of Commerce/ U.S. Census Bureau
State Legislative District (SLD) Upper Chamber	Department of Commerce/ U.S. Census Bureau
Subbarrio (Subminor Civil Division)	Department of Commerce/ U.S. Census Bureau
Tribal Block Group	Department of Commerce/ U.S. Census Bureau
Tribal Census Tract	Department of Commerce/ U.S. Census Bureau
Unified School Districts	Department of Commerce/ U.S. Census Bureau
United States Canadian Boundary	International Boundary Commission (IBC)

Table 2. NGDA Datasets within the Theme.

Human and Financial Resources Needed for Theme Management

The following table provides an estimate of resources needed for managing this Theme. It includes different activities, the roles that support them, as well as an estimated decimal Full Time Equivalent (FTE) and FTE grade. This estimate does not include the resources required for the agency to develop and maintain the NGDA Dataset(s) that make up the Theme to meet the agency's core mission requirements.

Reporting Period for Human and Financial Resources⁴: April 2017 – September 2017

Description of Theme Management Activities	Role (Theme Lead, co-Theme Lead, NGDA Coordinator, other as specified)	FTE ⁵	FTE Grade
NGDA Theme management (e.g., attend meetings, review NGDA documents, develop Theme Strategic & Implementation Plans, etc.)	Theme Lead	0.66	GS-13
NGDA Theme management (e.g., attend meetings, review NGDA documents, develop Theme Strategic & Implementation Plans, etc.)	Theme Lead Coordinator	0.49	GS-11

Table 3. Human and Financial Resources Needed for Theme Management.

Progress against Goals and Objectives

The following table shows the progress status made toward achieving the Theme's Strategic Plan goals and objectives since the last reporting period. Status categories include 'Not Started' for those activities that have not gotten underway in the reporting period; 'In Progress' for those activities underway which

³ "Place" refers to Incorporated Place or Census Designated Place (CDP).

⁴ The reporting period in the future will be October 1 – September 30 and be submitted by October 31 effective Fiscal Year 2018.

⁵ A full-time Federal employee was available a maximum of 1,016 hours during the inclusive period of April 1, 2017 – September 30, 2017 assuming a Monday-Friday schedule with 8-hour workdays and not counting Federal Holidays. The FTE was determined by taking the actual number of hours worked in support of Theme Management divided by 1,016 hours, rounded to the nearest 0.01.

will continue into the next year; 'Complete' for the activities finished, or 'Recurring (completed for the current reporting period).

Goals and Objectives undertaken during FY17	Status
Goal 1: Ensure the effective development and maintenance of the Governmental Units, and Administrative and Statistical Boundaries datasets.	
Objective 1.1: Develop, maintain, and distribute authoritative governmental units (legal) datasets.	In Progress
Objective 1.2: Develop, maintain, and distribute authoritative statistical boundary datasets.	In Progress
Objective 1.3: Develop, maintain, and distribute authoritative administrative boundary datasets.	In Progress
Objective 1.4: Maintain topological relationships and quality standards for all geographic units and their associated NGDA Datasets in the Governmental Units Theme.	In Progress
Objective 1.5: Complete annual Lifecycle Maturity Assessments (LMAs).	Recurring (completed for FY17)
Goal 2: Facilitate the sharing and distribution of Governmental Units, and Administrative and Statistical Boundaries Theme datasets.	
Objective 2.1: Publish metadata on Data.gov and the Geospatial Platform (GeoPlatform) to facilitate discovery and use of theme datasets.	In Progress
Objective 2.2: Provide reliable Web Map Services (WMS) with quality metadata to improve the GeoPlatform experience.	In Progress
Goal 3: Coordinate the Governmental Units, and Administrative and Statistical Boundaries Theme among stakeholders.	
Objective 3.1: National Boundary Group (NBG), formally designated as an FGDC working group in 2014, leads the development of nationally consistent boundaries that are integrated using the same geographic base. Federal boundary sources will be consistent, accurate, and integrated.	Recurring (completed for FY17)
Objective 3.2: The Tribal Boundaries Subgroup, formally designated as a NBG working group in 2015, identifies the data and communication needs for agencies and governments using tribal boundary data. These agencies include the Tribal governments, Department of Interior (DOI), the Census Bureau, Federal Emergency Management Agency (FEMA), and Forest Service (USFS).	In Progress
Objective 3.3: The Federal Lands Working Subgroup (FLWG) develops a data standard and the organizational strategies for the aggregation of federally owned lands in a spatial database.	In Progress

Goals and Objectives undertaken during FY17	Status
Objective 3.4: Continue collaboration between Census Bureau, the International Boundary Commission (IBC) and the International Boundary and Water Commission (IBWC) to complete the update of all international boundaries in Census Bureau’s Digital Geographic Database of the United States.	In Progress
Objective 3.5: The Governmental Units, and Administrative and Statistical Boundaries Theme community leverages the GeoPlatform to increase community membership and facilitate dataset management and communication across the Theme.	In Progress

Table 4. Theme Implementation Plan Progress Status.

Theme Implementation Plan

The following table provides details for achieving Theme Strategic Plan goals and objectives over the multi-year planning period. These include roles and responsibilities, specific actions, milestones, performance indicators and projected completion dates.

Strategic Goal 1 – Ensure the effective development and maintenance of the Governmental Units, and Administrative and Statistical Boundaries datasets.				
Objective 1.1: Develop, maintain, and distribute authoritative governmental units (legal) datasets. Anticipated Outcomes: Legal entities originate from legal actions, treaties, statutes, ordinances, resolutions, and court decisions. Authoritative Governmental Units Theme datasets will contain up-to-date information about the boundaries and names of all governmental units in the United States. The authoritative boundary information provides the framework for the tabulation and presentation of collected data during the decennial and economic censuses, and annual estimates and surveys such as the Population Estimates Program (PEP) and the American Community Survey (ACS). Agencies, Bureaus, and Offices Involved: All dataset managers and program managers of legal boundary datasets, the Census Bureau’s Tribal Program Manager, the Census Bureau’s Geographic Customer Service Branch, the Census Bureau’s Geographic Standards, Criteria, and Quality Branch, Census Bureau’s Geography Division Chief, and the Boundary and Annexation Survey (BAS) Program Manager.				
Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.1.1. Unless otherwise noted in other actions listed below, maintain and update all legal boundary data as needed according to program schedules. Program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.	Maintained and updated legal boundary datasets not covered elsewhere in this plan.	Number of legal boundary datasets checked for currency, accuracy of attributes, and updated.	All dataset and program managers of these specified legal boundary datasets	Q4 each year
Agency and/or Stakeholder		Activities Through FY17-Q4		
Theme Lead		1.1.1. The maintenance and update of the legal boundary datasets are covered elsewhere in this plan as reported by individual program managers. The activities for FY17-Q4 have been reviewed by the theme’s lead agency and approved by agency leadership for this time period.		

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.1.1. (cont.) Unless otherwise noted in other actions listed below, maintain and update all legal boundary data as needed according to program schedules. Program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.	<p>BAS updates received are reflected in almost all of the Census Bureau's data tabulation and other agency programs.</p> <p>Posting of TIGER/Line Shapefiles. Delivery of dataset to internal Census Bureau tabulation processing.</p>	<p>Number of all required updates completed. Accuracy of the update indicated by the number of subsequent corrections required.</p> <p>Creation of the spatial dataset (shapefiles) with the BAS updates.</p>	<p>BAS Program Manager</p> <p>Decennial Information Technology Division/BAS Program Manager/Geographic Customer Service Branch</p>	<p>June of each year for legal boundaries</p> <p>August of each year for non-legal boundaries</p> <p>August of each year</p>
Agency and/or Stakeholder	Activities Through FY17-Q4			
BAS Program Manager	1.1.1. As of September 30, 2017, Census Bureau has processed updates from over 4,400 governments, via both digital BAS submissions (both regular digital submissions and Geographic Update Partnership Software (GUPS) submissions) and paper BAS submissions for the 2017 BAS cycle.			
Decennial Information Technology Division/BAS Program Manager/Geographic Customer Service Branch	1.1.1. All 2017 TIGER/Line Shapefiles posted to Census Bureau's website. 2017 edition of the datasets delivered for internal Census Bureau tabulation processing.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.1.1. (cont.) Unless otherwise noted in other actions listed below, maintain and update all legal boundary data as needed according to program schedules. Program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.	Identify survey information and data requirements for each boundary segment. <ul style="list-style-type: none"> • Colorado River⁶ • Rio Grande River⁷ • Land boundary between the Rio Grande River and the Pacific Ocean • International Maritime Boundary in the Gulf of Mexico⁸ • International Maritime Boundary in the Pacific Ocean⁹ 	Percentage of survey information and data requirements identified.	International Boundary and Water Commission (IBWC)	As frequently as necessary (if justifiable), but at intervals less than ten years
Agency and/or Stakeholder	Activities Through FY17-Q4			
IBWC	1.1.1. No activity to report.			

⁶ Colorado River from the centerline of the Colorado River, at the U.S. State of California, U.S. State of Arizona, Mexico Baja California State, and the Colorado River intersection, wherever it may be located, to the centerline of the Colorado River at the U.S. State of Arizona, Mexico Baja California State, Mexico Sonora State, and the Colorado River intersection, wherever it may be located.

⁷ Rio Grande River from the centerline of the Rio Grande River at the U.S. State of New Mexico, U.S. State of Texas, Mexico Chihuahua State, and the Rio Grande River intersection, wherever it may be located, to the centerline of the mouth of the Rio Grande River, U.S. State of Texas, Mexico Tamaulipas State, and the Gulf of Mexico intersection, wherever it may be located.

⁸ International Maritime Boundary in the Gulf of Mexico from the centerline of the mouth of the Rio Grande River, U.S. State of Texas, Mexico Tamaulipas State, and the Gulf of Mexico intersection, wherever it may be located to the Fixed Point/Punto Fijo, located at North 25° 57' 22.18" West 97° 08' 19.76", extending 12 nautical miles to a point located at North 25° 58' 30.57" West 96° 55' 27.37".

⁹ United States/Mexico International Maritime Boundary in the Pacific Ocean from a Fixed Point/Punto Fijo #1 located at North 32° 32' 03.19" West 117° 07' 25.70" to a Fixed Point/Punto Fijo #2 located at North 32° 31' 38.79" West 117° 14' 17.49" to a Fixed Point/Punto Fijo #3 located at North 32° 33' 12.04" West 117° 15' 46.76" to a Fixed Point/Punto Fijo #4 located at North 32° 34' 20.93" West 117° 21' 58.39" to a Fixed Point/Punto Fijo #5 located at North 32° 35' 22.11" West 117° 27' 49.42".

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.1.1. (cont.) Unless otherwise noted in other actions listed below, maintain and update all legal boundary data as needed according to program schedules. Program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.	Resurvey the boundary segments. <ul style="list-style-type: none"> • Colorado River • Rio Grande River • Land boundary between the Rio Grande River and the Pacific Ocean • International Maritime Boundary in the Gulf of Mexico • International Maritime Boundary in the Pacific Ocean 	Percentage of resurvey completed.	IBWC	As frequently as necessary (if justifiable), but at intervals less than ten years
	Draft and publish a joint report for each boundary segment. <ul style="list-style-type: none"> • Colorado River • Rio Grande River • Land boundary between the Rio Grande River and the Pacific Ocean • International Maritime Boundary in the Gulf of Mexico • International Maritime Boundary in the Pacific Ocean 	Percentage of the joint report drafted.	IBWC	As frequently as necessary (if justifiable), but at intervals less than ten years
Agency and/or Stakeholder	Activities Through FY17-Q4			
IBWC	1.1.1. No activity to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.1.1. (cont.) Unless otherwise noted in other actions listed below, maintain and update all legal boundary data as needed according to program schedules. Program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.	Gather and compile survey information for each boundary segment. <ul style="list-style-type: none"> Colorado River Rio Grande River Land boundary between the Rio Grande River and the Pacific Ocean International Maritime Boundary in the Gulf of Mexico International Maritime Boundary in the Pacific Ocean 	Percentage of survey information and data gathered and compiled.	IBWC	As frequently as necessary (if justifiable), but at intervals less than ten years
	Review and validate survey information for each boundary segment. <ul style="list-style-type: none"> Colorado River Rio Grande River Land boundary between the Rio Grande River and the Pacific Ocean International Maritime Boundary in the Gulf of Mexico International Maritime Boundary in the Pacific Ocean 	Percentage of survey information and data reviewed and validated.	IBWC	As frequently as necessary (if justifiable), but at intervals less than ten years
Agency and/or Stakeholder	Activities Through FY17-Q4			
IBWC	1.1.1. No activity to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.1.1. (cont.) Unless otherwise noted in other actions listed below, maintain and update all legal boundary data as needed according to program schedules. Program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.	Draft and publish joint report for each boundary segment. <ul style="list-style-type: none"> Colorado River Rio Grande River Land boundary between the Rio Grande River and the Pacific Ocean International Maritime Boundary in the Gulf of Mexico International Maritime Boundary in the Pacific Ocean Approval of joint report for each boundary segment. <ul style="list-style-type: none"> Colorado River Rio Grande River Land boundary between the Rio Grande River and the Pacific Ocean International Maritime Boundary in the Gulf of Mexico International Maritime Boundary in the Pacific Ocean 	Percentage of joint report drafted. Report approval.	IBWC IBWC	As frequently as necessary (if justifiable), but at intervals less than ten years As frequently as necessary (if justifiable), but at intervals less than ten years
Agency and/or Stakeholder	Activities Through FY17-Q4			
IBWC	1.1.1. No activity to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.1.1. (cont.) Unless otherwise noted in other actions listed below, maintain and update all legal boundary data as needed according to program schedules. Program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.	Draft and publish Minute Report for each boundary segment. <ul style="list-style-type: none"> • Colorado River • Rio Grande River • Land boundary between the Rio Grande River and the Pacific Ocean • International Maritime Boundary in the Gulf of Mexico • International Maritime Boundary in the Pacific Ocean 	Percentage of Minute Report drafted.	IBWC	As needed
	Approval of the Minute Report for each boundary segment. <ul style="list-style-type: none"> • Colorado River • Rio Grande River • Land boundary between the Rio Grande River and the Pacific Ocean • International Maritime Boundary in the Gulf of Mexico • International Maritime Boundary in the Pacific Ocean 	Minute Report approved.	IBWC	As needed
Agency and/or Stakeholder	Activities Through FY17-Q4			
IBWC	1.1.1. No activity to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.1.1. (cont.) Unless otherwise noted in other actions listed below, maintain and update all legal boundary data as needed according to program schedules. Program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.	Publish updated shapefile of the United States/Mexico International Boundary followed with an update of the metadata data on Data.gov/Geoplatform.gov.	Update posted.	IBWC	As needed
Agency and/or Stakeholder	Activities Through FY17-Q4			
IBWC	1.1.1. No activity to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.1.2. Request that local, county, state, and tribal governments increase their levels of participation in the review and update of their legal boundaries annually through the Census Bureau’s Boundary and Annexation Survey (BAS). Increase the number of states with formal cooperative agreements to provide boundary and annexation information.	Annual response information is emailed to participants.	Percentage of participants contacted.	BAS Program Manager	Q3 of each year
	Non-Response follow-up.	Percentage of BAS responses received based on the overall number of BAS respondents contacted and invited to participate in the BAS.	BAS Program Manager	Q3 of each year
	State Data Center non-response follow-up.	Percentage of BAS responses received based on the overall number of BAS respondents requiring follow-up.	BAS Program Manager	Q4 of each year
	Year-to-year increase in the number of states with formal cooperative agreements.	Number of cooperative agreements completed.	BAS Program Manager	Q4 of each year
Agency and/or Stakeholder	Activities Through FY17-Q4			
BAS Program Manager	<p>1.1.2. As of September 30, 2017, the 2017 BAS response rate for eligible legal governments was 91.12%, exceeding the 2017 BAS requirement of a 85% response rate. Fourteen (14) State Data Centers assisted with BAS non-response follow up in FY17.</p> <p>The Census Bureau has engaged in conversations with North Dakota, Vermont, Oklahoma, Idaho, and Minnesota to enter into a BAS State agreement beginning with the 2018 BAS.</p>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.1.3. Secure sufficient funding to conduct the annual BAS.	Sufficient annual funding reflected in appropriation.	Sufficient annual funding reflected in budget documentation.	Census Bureau's Geography Division Chief in coordination with BAS Program Manager	Q1 of each year
1.1.4. Give the highest elected officials a final opportunity to review their official legal boundaries before the 2020 Census tabulation through the Boundary Validation Program (BVP) beginning in the 1st quarter of 2020.	All Highest Elected Officials notified.	Number of notifications sent.	BAS Program Manager	FY20-Q4
	Responses received from highest elected officials or their designee.	Number of responses received.	BAS Program Manager	FY20-Q4
Agency and/or Stakeholder	Activities Through FY17-Q4			
Census Bureau's Geography Division Chief in coordination with BAS Program Manager	1.1.3. The Census Bureau has budgeted for Geographic Support System (GSS) and 2020 Census funding for the 2018 BAS.			
BAS Program Manager	1.1.4. No activities scheduled until FY20.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p>1.1.5. The Census Bureau’s Tribal BAS will collect boundary data via a government-to-government policy, verify proposed changes with the Bureau of Indian Affairs (BIA), incorporate changes as appropriate, and increase the accessibility of the data on federal websites and data repositories.</p> <p>1.1.6. The BIA will implement the Boundary Inventory and Update program to: 1) portray federally recognized American Indian Land Boundaries that are linked to official land, title, and cadastral records in all land status mapping products; 2) assign “certainty” ranking to boundary segments and investigate/resolve discrepancies based on legal determinations; 3) publish the single authoritative source for American Indian land boundaries for use by tribes and other agencies (Census Bureau, USDA, EPA, FEMA, state, county, local, etc.).</p>	<p>Collect, verify (if needed), and incorporate all boundary data changes.</p> <p>Publish the single authoritative source.</p> <p>BIA provides spatial file updates to the Census Bureau.</p>	<p>Number of changes processed.</p> <p>Number of changes processed prior to publishing deadline.</p> <p>Number of spatial files delivered to the Census Bureau.</p>	<p>BAS Program Manager</p> <p>Census Bureau’s Tribal Program Manager</p> <p>Census Bureau’s Tribal Program Manager</p>	<p>Q3 of each year</p> <p>FY18-Q3</p> <p>FY18-Q3</p>
Agency and/or Stakeholder	Activities Through FY17-Q4			
BAS Program Manager	<p>1.1.5. 2017 BAS annual response started during the week of December 20, 2016. Staff assisted Tribal BAS contacts with questions and conducting non-response follow up to ensure a high participation rate and boundary quality.</p> <p>As of July 28, 2017, 159 federally recognized tribes have submitted updates to the 2017 BAS. Staff at the Census Bureau’s National Processing Center have completed the Tribal BAS submission reviews.</p>			
Census Bureau’s Tribal Program Manager	<p>1.1.6. As of September 30, 2017, the BIA has provided Census Bureau with a spatial file for the entire Rocky Mountain Region in support of the Boundary Inventory and Update Program.</p>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.1.7. International Boundary Commission (IBC) will continue to implement the database to maintain the 5,625-mile long international boundary between the United States and Canada using control networks, land monuments, and reference monuments.	See Action 3.4.2.		IBC	
1.1.8. Implement International Boundary and Water Commission (IBWC) goals to resurvey and repair land boundary monuments (last surveyed in 2007) on the international border between the United States and Mexico.	Resurvey and repair land boundary monuments.	Action Completed.	IBWC	Not applicable
1.1.9. Implement IBWC goals to review recently surveyed boundary monuments 120, 121, 122, 122C, and 123 on the international border between the United States and Mexico.	Complete review of boundary monuments 120, 121, 122, 122C, and 123.	Number of boundary monuments completed.	IBWC	FY17-Q4
Agency and/or Stakeholder	Activities Through FY17-Q4			
IBWC	1.1.8. Action Completed.			
IBWC	1.1.9. No activity to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.1.10. Implement IBWC goals to compile a joint report on the repair of boundary monuments 142A & 145 on the international border between the United States and Mexico.	Draft and Publish report.	Percentage of report completed.	IBWC	FY17-Q4
1.1.11. Implement IBWC goals to complete the restoration of recently rehabbed boundary monument 207 on the international border between the United States and Mexico.	Restore boundary monument.	Action Completed.	IBWC	Not applicable
Agency and/or Stakeholder	Activities Through FY17-Q4			
IBWC	1.1.10. As of September 21, 2017, the report is 50% along with the draft completed.			
IBWC	1.1.11. Action Completed.			

<p>Objective 1.2: Develop, maintain, and distribute authoritative statistical boundary datasets.</p> <p>Anticipated Outcomes: Accomplishment of the objective will produce meaningful, relevant census tracts, block groups, Census Designated Places (CDPs) and Census County Divisions (CCDs), tribal statistical areas, tribal census tracts, and tribal block groups to obtain meaningful, relevant small area and place-level statistical data. The updated boundaries for census tracts, block groups, CDPs, CCDs, and the various tribal statistical areas provide the framework for the tabulation and presentation of data from the 2020 Census, and the ACS. Local, state, and federal agencies, private sector organizations, academic institutions, and the public use data tabulations for planning and funding purposes.¹⁰</p> <p>Agencies, Bureaus, and Offices Involved: Statistical Boundary Dataset and Program Managers</p>				
Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p>1.2.1. Unless otherwise noted in other actions listed below, maintain and update all statistical boundary data as needed according to program schedules. The program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.</p>	<p>Maintain and update statistical boundary datasets not covered elsewhere in this plan.</p>	<p>Number of maintained and updated statistical boundary datasets.</p>	<p>All dataset and program managers of these specified statistical boundary datasets</p>	<p>Q4 each year</p>
Agency and/or Stakeholder		Activities Through FY17-Q4		
Theme Lead		<p>1.2.1. The maintenance and update of the statistical boundary datasets are covered elsewhere in this plan as reported by individual program managers. The activities for FY17-Q4 have been reviewed by the theme lead's agency and approved by agency leadership for this time period.</p>		

¹⁰ "2010 Participant Statistical Areas Program Participant Information," U.S. Census Bureau, June 25, 2008, http://www2.census.gov/geo/pdfs/partnerships/psap2010_part_info.pdf.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.2.2. Beginning Spring 2018, initiate the Participant Statistical Areas Program (PSAP) to help local, regional, and tribal governments fill in statistical data gaps by defining statistical boundaries, including tribal statistical boundaries, in communities where no legal boundaries exist. ¹¹	Mail out PSAP materials to participants.	Support materials delivery to participants completed.	PSAP Program Manager	FY19-Q2
	All received updates processed.	Percentage of updates submitted by participants processed to include “no change” responses.	PSAP Program Manager	FY20-Q4
Agency and/or Stakeholder	Activities Through FY17-Q4			
PSAP Program Manager	1.2.2. No activities scheduled until FY19.			

¹¹ “Accurate Geography Is the Starting Point for Accurate Data,” Version 3, U.S. Census Bureau, January 24, 2017.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p>1.2.3. Beginning in early 2021, initiate the ZIP Code Tabulation Area (ZCTA) Program to build a generalized geographic area representation of a five-digit U.S. Postal Service ZIP Code to tabulate and disseminate 2020 census data and minimize data disclosure concerns.¹²</p> <p>1.2.4. Beginning in early 2021, review criteria and standards for urban areas and delineate new boundaries with 2020 census results.¹³</p>	Develop project plan.	Percentage of project plan developed.	ZCTA Program Manager	FY21-Q3
	Proposed criteria published.	Federal Register notice published.	Urban Area Dataset Program Manager	FY21-Q1
	Final criteria published.	Federal Register notice published.	Urban Area Dataset Program Manager	FY22-Q1
	Complete and publish urban area delineations.	Percentage of urban area dataset completed.	Urban Area Dataset Program Manager	FY22-Q2
Agency and/or Stakeholder	Activities Through FY17-Q4			
ZCTA Program Manager	1.2.3. No activities scheduled until FY21.			
Urban Area Dataset Program Manager	1.2.4. No activities scheduled until FY21.			

¹² “2020 Census Operational Plan: A New Design for the 21st Century, Version 1.1,” U.S. Census Bureau, November 2015, <http://www2.census.gov/programs-surveys/decennial/2020/program-management/planning-docs/2020-oper-plan.pdf>.

¹³ Ibid.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.2.5. Beginning in late 2021, review criteria and standards for Public-Use Microdata Areas (PUMAs) and coordinate recommended changes with state-partners and other stakeholders. ¹⁴	Proposed criteria published.	Publishing format to be determined.	PUMA Program Manager	FY21-Q4
	Final criteria published.	Publishing format to be determined.	PUMA Program Manager	FY22-Q1
	Complete all PUMA boundary delineations.	Number of state-partners and other stakeholders that have coordinated updates, and submitted new boundary delineations.	PUMA Program Manager	FY22-Q4
1.2.6. Initiate and conduct Phase 1 of the 2020 Census Redistricting Data Program (RDP) in late 2015 to collect Block Boundary Suggestion Project (BBSP) for the 2020 Census tabulation block inventory. Complete updates of these suggestions in the Master Address File/TIGER database (MTDB) in 2017. ¹⁵	BBSP Delineation Completed.	Number of participant submitted boundary updates completed.	CRVRDO Program Manager	FY16-Q4
	BBSP Verification Completed.	Number of participant submitted boundary updates completed.	CRVRDO Program Manager	FY17-Q3
Agency and/or Stakeholder	Activities Through FY17-Q4			
PUMA Program Manager	1.2.5. No activities scheduled until FY21.			
CRVRDO Program Manager	1.2.6. BBSP Initial Phase completed during FY16-Q4. BBSP verification materials were returned by 100% of 3,220 counties contacted. All of the 964 counties with changes completed final quality control as of October 5, 2017.			

¹⁴ “2020 Census Operational Plan: A New Design for the 21st Century, Version 1.1,” U.S. Census Bureau, November 2015, <http://www2.census.gov/programs-surveys/decennial/2020/program-management/planning-docs/2020-oper-plan.pdf>.

¹⁵ Ibid.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.2.7. Initiate program criteria and delineate census tabulation block boundaries using 2020 census results no later than the end of 2020.	Complete tabulation block delineation.	Number of tabulation blocks delineated.	Census Block Program Manager	FY20-Q4
1.2.8. Beginning in 2019, work with the Office of Management and Budget (OMB) to review the current standards for delineating metropolitan, micropolitan, and related statistical areas in anticipation of OMB re-delineating these areas after the 2020 census.	Standards review support materials to OMB.	Support materials delivery to OMB completed.	Metropolitan Statistical Area/Micropolitan Statistical Area Program Manager working with OMB	FY20-Q4
Agency and/or Stakeholder	Activities Through FY17-Q4			
Census Block Program Manager	1.2.7. No activities scheduled until FY20.			
Metropolitan Statistical Area/Micropolitan Statistical Area Program Manager working with OMB	1.2.8. No activities scheduled until FY19.			

Objective 1.3: Develop, maintain, and distribute authoritative administrative boundary datasets.

Anticipated Outcomes: Administrative measures create administrative boundaries, specify their governmental or administrative functions, and contain provisions to update names and boundaries. Updated boundaries are the framework for the tabulation and presentation of data from the 2020 Census, and the ACS. Federal, state, county, and local agencies, private sector organizations, academic institutions, and the public use data tabulations for planning and funding purposes.¹⁶

Agencies, Bureaus, and Offices Involved: All administrative boundary Dataset and Program Managers, Theme Lead, and the Census Bureau's Small Area Estimate Branch.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.3.1. Unless otherwise noted in other actions listed below, maintain and update all administrative boundary data as needed according to program schedules. The program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.	Maintain and update administrative boundary datasets not covered elsewhere in this plan.	Number of administrative boundary datasets maintained and updated.	All dataset and program managers of these specified administrative boundary datasets	Q4 each year
Agency and/or Stakeholder	Activities Through FY17-Q4			
Theme Lead	1.3.1. The maintenance and update of the authoritative boundary datasets are covered elsewhere in this plan as reported by individual program managers. The activities for FY17-Q4 have been reviewed by the theme lead's agency and approved by agency leadership for this time period.			

¹⁶ "2010 Participant Statistical Areas Program Participant Information," U.S. Census Bureau, June 25, 2008, http://www2.census.gov/geo/pdfs/partnerships/psap2010_part_info.pdf.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.3.2. On a biennial basis beginning in August 2017, and subsequent years (2019, 2021), review suggested changes and updates from state officials to modify school district boundaries, grade ranges, and official names for the School District Review Program (SDRP). Submit changes to the Elementary School Districts, Secondary School Districts, and Unified School Districts to the National Center for Education Statistics to Allocate Title 1 funding to school districts.	Complete Annotation Phase.	Number of changes in the school district boundaries or attributes reported to the Census Bureau, reviewed, and adjudicated.	School District Review Program Manager	December 2017, December 2019
	Complete Verification Phase.	Number of changes in the school district boundaries or attributes reported to the Census Bureau, reviewed, and adjudicated.	School District Review Program Manager	May 2018, May 2020
	Submit changes to the National Center for Education Statistics (NCES).	Number of changes submitted to NCES.	Census Bureau/Small Area Estimate Branch	November 2018, November 2020
1.3.3. Initiate Phase 1 of the 2020 Census Redistricting Data Program (RDP) coincident with the Block Boundary Suggestion Project (BBSP) in 2016.	Initiate Phase 1.	Not applicable.	RDP Lead	December 2016
Agency and/or Stakeholder	Activities Through FY17-Q4			
School District Review Program Manager	1.3.2. Material creation for the annotation phase of SDRP is complete. Annotation phase materials were mailed out to state mapping coordinators during the week of August 14, 2017. A national training webinar took place on October 17, 2017.			
RDP Lead	1.3.3. Action completed.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p>1.3.4. Initiate and conduct Phase 2 of the 2020 Census RDP in late 2017 to collect Voting District (VTD) boundaries, names, and codes. Complete updates of these boundaries in the Master Address File/TIGER database (MTDB) in early 2020.</p> <p>1.3.5. Update Bureau of Land Management (BLM) data on Administrative Unit Boundary Polygons and Administrative Unit Office Points. The information contained in these data is updated when necessary and are neither legal documents nor land surveys.</p>	VTD Delineation Completed.	Number of participant submitted boundary updates completed.	CRVRDO Program Manager	FY20-Q2
	VTD Verification Completed.	Number of participant submitted boundary updates completed.	CRVRDO Program Manager	FY20-Q2
	Updated polygon and/or point received.	Percentage of updates received.	BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	Quarterly
	Dataset updated.	Percentage of updates completed.		Quarterly
	Dataset published.	Percentage of updates published.		Quarterly
Agency and/or Stakeholder	Activities Through FY17-Q4			
CRVRDO Program Manager	1.3.4. No activity to report.			
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	1.3.5. No expectations to make any changes to the data standard / data set this fiscal year aside from quarterly updates for changes to the Administrative Unit Codes and/or Names (e.g. small adjustments to the values and/or boundaries).			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.3.6. Update Environmental Protection Agency (EPA) data on facility locations and regional boundaries. The information contained in these data is updated when necessary.	Updated data received (as needed).	Percentage of anticipated updates received.	EPA Facility Locations and Regional Boundaries	FY21-Q4
	Dataset updated (as needed).	Percentage of updates completed.	Dataset Manager	FY21-Q4
	Dataset published (as needed).	Percentage of updates published.		FY21-Q4
Agency and/or Stakeholder	Activities Through FY17-Q4			
EPA Facility Locations and Regional Boundaries Dataset Manager	1.3.6. No activity reported.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p>1.3.7. Update Housing and Urban Development (HUD) data on Entitlement Grantee Jurisdictions. The Community Development Block Grant (CDBG) program provides annual grants on a formula basis to local, county, and state governments. The information is updated when necessary.</p> <p>1.3.8. Update National Oceanic and Atmospheric Administration (NOAA) data on National Weather Service County Warning Area Boundaries. Shoreline boundaries of the data is dependent on the shoreline edges of rivers and bays as delineated on a U.S. Geological Survey (USGS) Digital Line Graph (DLG). The edges or borders of the boundary might change as the natural land changes and Weather Forecast Office (WFOs) request for changes. The information contained in this data is updated when necessary.</p> <p><i>Between the publishing of the Theme Strategic Plan and the development of this Implementation Plan, the Dataset Manager has recommended removal of the National Weather Service County Warning Area Boundaries as an NGDA. The milestones will now reflect the removal process.</i></p>	Update the jurisdictions.	Percentage of jurisdictions up-to-date.	HUD Entitlement Grantee Jurisdiction Dataset Manager	Q2 each year
	Publish updated dataset.	Percentage of needed boundary updates finalized.		Q2 each year
	Submission of NGDA Dataset Removal Form to the FGDC.	Removal application submitted to FGDC.	Governmental Units Theme Lead and National Weather Service County Warning Area Boundaries Dataset Manager	FY17-Q1
	FGDC Steering Committee endorses removal.	FGDC endorsement of dataset removal received.		TBD
Agency and/or Stakeholder	Activities Through FY17-Q4			
HUD Entitlement Grantee Jurisdiction Dataset Manager	1.3.7. No activity reported.			
Theme Lead	1.3.8. Removal completed during FY17-Q3.			

<p>Objective 1.4: Maintain topological relationships and quality standards for all geographic units and their associated NGDA Datasets in the Governmental Units Theme.</p> <p>Anticipated Outcomes: Updates to all legal, statistical, and administrative boundary data received through scheduled Census Bureau Geographic Programs to maintain topological relationships and data quality standards in the MTDB (see Appendix 1). The Geographic Area Reconciliation Project (GARP) and Boundary Quality Assessment and Reconciliation Project (BQARP) are two Geographic Programs that improve spatial accuracy. Alignment with Parcel and Public Land Survey System (PLSS) boundaries are essential components of the BQARP. The National Boundaries Group (NBG) ensures consistent, accurate, integrated geographic base information for all federal boundaries.</p> <p>Agencies, Bureaus, and Offices Involved: All Dataset and Program Managers, GARP Lead, GUPS Lead, and BQARP Lead.</p>				
Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p>1.4.1. Review all geographic areas and their topological relationships following the Census survey in 2020 to identify “small” summary-level records and unnecessary tabulation blocks during the Geographic Area Reconciliation Project (GARP)¹⁷. The GARP is conducted once a decade at the end of the decennial program to ensure the integration and quality of boundary information before final block creation. Note: “Small” could mean area, but could also mean minimum thresholds of housing and/or population.</p>	Review completed.	Number of “small” summary-level records and unnecessary tabulation blocks identified.	Census Block Program Manager and GARP Lead	FY20-Q4
<p>1.4.2. Obtain annual updates from theme partners from the Geographic Update Partnership Software (GUPS) tool to load, edit, and display geospatial data, as well as generate yearly output files (to FY 2023) that the Census Bureau will use to update the MAF/TIGER System.</p>	Generate yearly output files.	Number of GUPS installations by theme partners.	GUPS Lead	Q4 each year

¹⁷ “2020 Census Operational Plan: A New Design for the 21st Century, Version 1.1,” U.S. Census Bureau, November 2015, <http://www2.census.gov/programs-surveys/decennial/2020/program-management/planning-docs/2020-oper-plan.pdf>.

Agency and/or Stakeholder	Activities Through FY17-Q4
Census Block Program Manager and GARP Lead	1.4.1. No activities scheduled until FY20.
GUPS Lead	1.4.2. During 2017 BAS, 234 GUPS installation disks were shipped as requested by BAS participants. In addition, an unspecified number of digital downloads of this tool have been used by 2017 BAS participants to generate yearly output files to update the MTDB. See also activity report for Action 1.1.1. on page 6 for further information.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.4.3. Expand the use of available imagery for source data assessments.	Study and identify imagery needs.	Number of programs reviewed for imagery needs identified.	All Dataset and Program Managers	FY21-Q4
	Identify sources and prioritize funding for the imagery programs.	Number of shortfalls, funding sources, and priorities identified.	All Dataset and Program Managers	FY21-Q4
Agency and/or Stakeholder	Activities Through FY17-Q4			
All Dataset and Program Managers	1.4.3. No activity reported.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p>1.4.4. Align spatial boundaries data to maintain topological relationships using authoritative sources, parcel, and Public Land Survey System (PLSS) boundaries during the Boundary Quality Assessment and Reconciliation Project (BQARP). Assess all boundaries and set a quality flag on each boundary segment in the MTDB.</p> <p>1.4.5. Reconcile the legal documents (or descriptions) against the Census Bureau spatial boundaries data and cadastral data such as Public Land Survey System (PLSS) and parcel data. This reconciliation is a joint effort between the state or county government and the Census Bureau as well as other federal agencies.</p>	<p>Complete alignment of the spatial boundaries data boundaries to maintain topological relationships.</p> <p>See Action 1.4.4.</p>	Number of entities processed, verified, digitized, quality controlled, assessed, and locked-in the MTDB.	BQARP Lead	FY20-Q4
Agency and/or Stakeholder	Activities Through FY17-Q2			
BQARP Lead	1.4.4. Acquisition, processing, verification, digitizing, and quality control (QC) of boundary data continued in FY17.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.4.6. U.S. Census Bureau will ensure topological integration with international boundary datasets.	Complete integration of U.S.-Canada border. ¹⁸ <ul style="list-style-type: none"> • Maine • Vermont • New York • Pennsylvania • Ohio • Michigan • Minnesota • North Dakota 	Number of states with completed international boundary updates.	GARP Lead	FY20-Q4
	Complete integration of U.S.-Mexico border. ¹⁹ <ul style="list-style-type: none"> • California • Arizona • Texas 	Percentage of international boundary integrated in each state.	GARP Lead	FY20-Q4
Agency and/or Stakeholder	Activities Through FY17-Q4			
GARP Lead	1.4.6. No activity reported.			

¹⁸ States not listed were completed prior to the drafting of this plan.

¹⁹ Ibid.

Objective 1.5: Complete annual Lifecycle Maturity Assessments (LMAs).

Anticipated Outcomes: In 2015, dataset managers completed LMAs that established an initial baseline maturity assessment of the Governmental Units Theme datasets. The Theme Summary Report generated from the assessments provides an overview of the status, overall maturity, and other characteristics for the NGDA Datasets for the Governmental Units Theme. Yearly reports define business requirements and evaluate data user requirements, accessibility, cyclic updates, and overall status of the A-16 NGDA Portfolio. Dataset managers evaluate each new NGDA Dataset added to the Governmental Unit Theme and apply the same methodologies to determine data maturity to contribute to a new Theme Summary Report.

Agencies, Bureaus, and Offices Involved: All Dataset Managers and Program Managers, and the Theme Lead.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.5.1. Perform initial baseline assessments on new datasets.	Distribute updated LMA materials and train Dataset Managers and Program Managers.	Number of new datasets completed.	Theme Lead	As needed
	LMAs completed and submitted to FDGC.	Number of new datasets completed.	All dataset managers or program managers of new datasets	As needed
Agency and/or Stakeholder	Activities Through FY17-Q4			
Theme Lead	1.5.1. No new datasets have been added to the theme in FY17-Q3 or FY17-Q4.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
1.5.2. Update maturity assessments as needed on existing datasets.	Query dataset managers at Q2 and Q4 during each year there is not an FGDC-directed review.	Percentage of dataset LMAs checked for currency.	Theme Lead	Q2 and Q4 during any year without a FGDC-directed review
	Distribute updated LMA materials and conduct training for FGDC-directed review.	Percentage of Dataset Managers and Program Managers contacted.	Theme Lead	Schedule set by FGDC
	FGDC-directed LMAs completed and submitted to FDGC.	Percentage of LMAs completed and submitted to FDGC.	All dataset and program managers	Schedule set by FGDC
Agency and/or Stakeholder	Activities Through FY17-Q4			
Theme Lead	1.5.2. All FGDC-directed LMAs were completed in August 2017.			

Strategic Goal 2 – Facilitate the sharing and distribution of Governmental Units, and Administrative and Statistical Boundaries Theme datasets.				
Objective 2.1: Publish metadata on Data.gov and the Geospatial Platform (GeoPlatform) to facilitate discovery and use of theme datasets. Anticipated Outcomes: Identify Governmental Units Theme datasets and improve accessibility to a wider audience of geospatial and statistical users through cataloguing systems such as Data.gov and the Geospatial Platform (GeoPlatform.gov). Agencies, Bureaus, and Offices Involved: Metadata Publishers, Dataset Managers, and Program Managers				
Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
2.1.1. Include National Geospatial Data Asset (NGDA) designation keyword tags and NGDA alternate titles in metadata to clearly identify NGDA Datasets within the Governmental Units Theme. Ensure the use of the same title in the metadata record and the NGDA Master Dataset List. <i>Schedule for Action 2.1.1. will vary for non-Census Bureau datasets.</i> <i>HUD Entitlement Grantee Jurisdiction Dataset Manager will complete all milestones Q2 each year.</i> <i>United States Canadian Boundary Dataset Manager will complete all milestones as needed.</i> <i>EPA Facility Locations and Regional Boundaries Dataset Manager will complete an initial review of their metadata for action item compliance by the end of FY17-Q2.</i> <i>Further reviews will occur as needed.</i> <i>The International Boundary United States Mexico Minute 315 Dataset Manager will complete all milestones by FY17-Q3.</i> <i>BLM Administrative Unit Boundary Polygons & Office Points Dataset Manager will accomplish all milestones with each quarterly posting of their metadata.</i>	Metadata requirements Established.	Percentage of the requirements finalized.	Dataset Managers and Program Managers	Same calendar month (May) each year for Census Bureau datasets
	Metadata produced.	The number of datasets where all keyword tags identified. Number of NGDA datasets with alternate titles. Number of datasets having the same title in the metadata record and the NGDA Master Dataset List.	Metadata Publishers	Same calendar month (August) each year for Census Bureau datasets
	Metadata published.	Percentage of the datasets published.	Metadata Publishers	Same calendar month (November) each year for Census Bureau datasets

Agency and/or Stakeholder	Activities Through FY17-Q4
Census Bureau	2.1.1. All of the Census Bureau's 34 NGDAs in this theme have published metadata including designation keyword tags, NGDA alternate titles in metadata, and use of the same title in the metadata record and the NGDA Master Dataset List.
IBWC	2.1.1. No activity to report.
HUD Entitlement Grantee Jurisdiction Dataset Manager	2.1.1. No activity to report.
IBC	2.1.1. No activity to report.
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	2.1.1. No expectations to make any changes to the data standard / data set this fiscal year aside from quarterly updates for changes to the Administrative Unit Codes and/or Names (e.g. small adjustments to the values and/or boundaries).
EPA Facility Locations and Regional Boundaries Dataset Manager	2.1.1. No activity to report.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
2.1.2. Provide direct Uniform Resource Locators (URLs) to the dataset, online resources, web services, APIs, and additional documentation per FGDC guidelines. <i>Schedule for Action 2.1.2. will vary for non-Census Bureau datasets. See Action 2.1.1. for the schedule for the non-Census Bureau datasets.</i>	URL requirements established.	Percentage of the requirements finalized.	Dataset Managers and Program Managers	Same calendar month (May) year each for Census Bureau datasets
	URLs updated or produced.	Percentage of datasets with direct Uniform Resource Locators (URLs) to the data set, online resources, web services, APIs, and additional documentation per FGDC guidelines.	Dataset Managers and Program Managers	Same calendar month (August) each year for Census Bureau datasets
	URLs published.	Percentage of the datasets published.	Metadata Publishers	Same calendar month (November) each year for Census Bureau datasets
Agency and/or Stakeholder	Activities Through FY17-Q4			
Census Bureau	2.1.2. All of the Census Bureau's 34 NGDAs in this theme have published metadata providing direct Uniform Resource Locators (URLs) to the dataset, online resources, web services, APIs, and additional documentation per FGDC guidelines.			
IBWC	2.1.2. No activity to report.			
IBC	2.1.2. No activity to report.			
HUD Entitlement Grantee Jurisdiction Dataset Manager	2.1.2. No activity to report.			
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	2.1.2. No expectations to make any changes to the data standard / data set this fiscal year aside from quarterly updates for changes to the Administrative Unit Codes and/or Names (e.g. small adjustments to the values and/or boundaries).			
EPA Facility Locations and Regional Boundaries Dataset Manager	2.1.2. No activity to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p>2.1.3. Create geospatial metadata in compliance with International Standard Organization (ISO) or Content Standard for Digital Geospatial Metadata (CSDGM) standards. Use the appropriate metadata structure to describe the download or access URL.</p> <p><i>Schedule for Action 2.1.3. will vary for non-Census Bureau datasets. See Action 2.1.1. for the schedule for the non-Census Bureau datasets.</i></p>	Metadata produced.	Number of datasets that comply with standards and appropriate metadata structure to describe the download or access URL.	Dataset Managers and Program Managers	Same calendar month (August) each year for Census Bureau datasets
	Metadata published.	Number of datasets that comply with standards and appropriate metadata structure to describe the download or access URL.	Metadata Publishers	Same calendar month (November) each year for Census Bureau datasets
Agency and/or Stakeholder	Activities Through FY17-Q4			
Census Bureau	2.1.3. All of the Census Bureau's 34 NGDAs in this theme have published metadata in compliance with International Standard Organization (ISO) standards and use the appropriate metadata structure to describe the download or access URL.			
IBWC	2.1.3. No activity to report.			
IBC	2.1.3. No activity to report.			
HUD Entitlement Grantee Jurisdiction Dataset Manager	2.1.3. No activity to report.			
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	2.1.3. No expectations to make any changes to the data standard / data set this fiscal year aside from quarterly updates for changes to the Administrative Unit Codes and/or Names (e.g. small adjustments to the values and/or boundaries).			
EPA Facility Locations and Regional Boundaries Dataset Manager	2.1.3. No activity to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
2.1.4. Ensure that all metadata published includes only original metadata. Include terms found in published taxonomies and include a referencing thumbnail “browse” graphic in dataset metadata where appropriate. Specify content dates (use the word “present” in lieu of an end-date for continuously collected data). <i>Schedule for Action 2.1.4. will vary for non-Census Bureau datasets. See Action 2.1.1. for the schedule for the non-Census Bureau datasets.</i>	All datasets contain only original metadata.	Number of datasets containing only original metadata.	Dataset Managers and Program Managers	Same calendar month (November) each year for Census Bureau datasets
	All datasets include a referencing thumbnail where appropriate.	Number of datasets with a referencing thumbnail where appropriate.	Dataset Managers and Program Managers	Same calendar month (November) each year for Census Bureau datasets
	All datasets will specify content dates.	Number of datasets with content dates.	Dataset Managers and Program Managers	Same calendar month (November) each year for Census Bureau datasets
Agency and/or Stakeholder	Activities Through FY17-Q4			
Census Bureau	2.1.4. All of the Census Bureau’s 34 NGDAs in this theme are published with only original metadata, include terms found in published taxonomies, include a referencing thumbnail “browse” graphic in dataset metadata where appropriate, and specify content dates.			
IBWC	2.1.4. No activity to report.			
IBC	2.1.4. No activity to report.			
HUD Entitlement Grantee Jurisdiction Dataset Manager	2.1.4. No activity to report.			
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	2.1.4. No expectations to make any changes to the data standard / data set this fiscal year aside from quarterly updates for changes to the Administrative Unit Codes and/or Names (e.g. small adjustments to the values and/or boundaries).			
EPA Facility Locations and Regional Boundaries Dataset Manager	2.1.4. No activity to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p>2.1.5. Provide unique records for collections or series of homogenous datasets (collection-level and member-level metadata records) that vary in content date and geographic extent. Note: this type of collection management is not applicable to indexed records.</p> <p><i>The International Boundary United States Mexico Minute 315 Dataset Manager will plans to complete is action in FY17-Q3</i></p>	All unique records for collections or series of homogenous datasets are completed.	Percentage of records completed.	Dataset Managers and Program Managers of collections or series of homogenous datasets	Same calendar month (November) each year
Agency and/or Stakeholder	Activities Through FY17-Q4			
IBWC	2.1.5. No activity to report.			
HUD Entitlement Grantee Jurisdiction Dataset Manager	2.1.5. No activity to report.			
Census Bureau	2.1.5. All unique records for collections or series of homogenous datasets are completed for 2017			

Objective 2.2: Provide reliable Web Map Services (WMS) with quality metadata to improve the GeoPlatform experience. Anticipated Outcomes: NGDA Datasets for the Governmental Units Theme will be available as web services for efficient consumption and proliferation in web applications. Agencies, Bureaus, and Offices Involved: All Dataset Managers and Program Managers				
Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
2.2.1. Provide geospatial web services for all NGDAs in the Governmental Unit theme per FGDC guidelines. <i>The International Boundary United States Mexico Minute 315 Dataset Manager will determine their schedule for all actions in this objective at a later date.</i>	All NGDAs have an associated REST, WMS, WFS, etc.	Number of NGDAs with an associated REST, WMS, WFS, etc.	All Dataset Managers and Program Managers	FY17-Q2; FY17-Q3 for EPA
Agency and/or Stakeholder	Activities Through FY17-Q4			
Census Bureau	2.2.1. All of the Census Bureau's 34 NGDAs in this theme are supported with geospatial web services. The last remaining NGDA was made available via WMS and REST during FY17-Q4.			
IBWC	2.2.1. No activity to report.			
IBC	2.2.1. No activity to report.			
HUD Entitlement Grantee Jurisdiction Dataset Manager	2.2.1. No activity to report.			
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	2.2.1. No expectations to make any changes to the data standard / data set this fiscal year aside from quarterly updates for changes to the Administrative Unit Codes and/or Names (e.g. small adjustments to the values and/or boundaries).			
EPA Facility Locations and Regional Boundaries Dataset Manager	2.2.1. No activity to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
2.2.2. All geospatial web services linked via URL to the GeoPlatform meet the GeoPlatform's performance metrics standards.	All REST, WMS, WFS, etc. meet the performance metrics standards.	Number of NGDAs with REST, WMS, WFS, etc. linked via URL to the GeoPlatform meeting the GeoPlatform's performance metrics standards.	All Dataset Managers and Program Managers	FY17-Q4
Agency and/or Stakeholder	Activities Through FY17-Q4			
Census Bureau	2.2.2. All of the Census Bureau's 34 NGDAs in this theme are supported with geospatial web services. All geospatial web services, except for one remaining NGDA (Census Regional Boundaries), are linked via URL to the GeoPlatform and meet the GeoPlatform's performance metrics standards. The remaining NGDA is expected to be linked via URL to the GeoPlatform for performance measurement before the end of FY18-Q1.			
IBWC	2.2.2. No activity to report.			
IBC	2.2.2. No activity to report.			
HUD Entitlement Grantee Jurisdiction Dataset Manager	2.2.2. No activity to report.			
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	2.2.2. No expectations to make any changes to the data standard / data set this fiscal year aside from quarterly updates for changes to the Administrative Unit Codes and/or Names (e.g. small adjustments to the values and/or boundaries).			
EPA Facility Locations and Regional Boundaries Dataset Manager	2.2.2. EPA's geospatial web services for its NGDA is linked via URL to the GeoPlatform meet the GeoPlatform's performance metrics standards.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
2.2.3. Metadata must include an actionable Service Endpoint URL that will launch a web mapping service. If no actionable Service Endpoint is available, provide the URL that gets the user closest to the geospatial web services. As individual services are developed, the metadata link will be updated to the actionable Service Endpoint.	All metadata includes a REST, WMS, WFS, etc. with either a current actionable Service Endpoint URL or a URL that provides the closest link to the web mapping service.	Number NGDA datasets with metadata including a REST, WMS, WFS, etc. with either a current actionable Service Endpoint URL or a URL that provides closest link to the web mapping service.	All Dataset Managers and Program Managers	FY17-Q2; FY17-Q3 for EPA
Agency and/or Stakeholder	Activities Through FY17-Q4			
Census Bureau	2.2.3. The metadata of all of the Census Bureau's 34 NGDAs in this theme include an actionable Service Endpoint URL that will launch a web mapping service.			
IBWC	2.2.3. No activity to report.			
IBC	2.2.3. No activity to report.			
HUD Entitlement Grantee Jurisdiction Dataset Manager	2.2.3. No activity to report.			
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	2.2.3. No expectations to make any changes to the data standard / data set this fiscal year aside from quarterly updates for changes to the Administrative Unit Codes and/or Names (e.g. small adjustments to the values and/or boundaries).			
EPA Facility Locations and Regional Boundaries Dataset Manager	2.2.3. The metadata for its one NGDA includes an actionable Service Endpoint URL that will launch a web mapping service.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
2.2.4. In the metadata, URLs will be tagged with the acronym that best represents the geospatial web services such as REST, WMS, WFS, etc. per the NGDA Metadata Guidance. ²⁰	All URLs currently tagged with the best acronym.	Number of datasets with URLs correctly tagged.	All Dataset Managers and Program Managers	FY17-Q2
Agency and/or Stakeholder	Activities Through FY17-Q4			
Census Bureau	2.2.4. All of the Census Bureau’s 34 NGDAs have published metadata with URLs tagged with the acronym that best represents the geospatial web services such as REST, WMS, WFS, etc. per the NGDA Metadata Guidance.			
IBWC	2.2.4. No activity to report.			
IBC	2.2.4. No activity to report.			
HUD Entitlement Grantee Jurisdiction Dataset Manager	2.2.4. No activity to report.			
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	2.2.4. No expectations to make any changes to the data standard / data set this fiscal year aside from quarterly updates for changes to the Administrative Unit Codes and/or Names (e.g. small adjustments to the values and/or boundaries).			
EPA Facility Locations and Regional Boundaries Dataset Manager	2.2.4. No activity to report.			

²⁰ “National Geospatial Data Asset (NGDA) Metadata Guidelines, Version 4,” Federal Geographic Data Committee, September 2016, https://cms.geoplatform.gov/sites/default/files/document_library/NGDA_Metadata_Guidelines.pdf.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
2.2.5. ISO metadata developers will document their geospatial web services using as a standalone Service Identification Record. This will allow the linking of the metadata of current and future versions of the same dataset to the same Service Identification Record.	All geospatial web services within ISO metadata records are documented using as a standalone Service Identification Record.	Number of datasets with ISO metadata records completed.	Dataset Managers and Program Managers with ISO metadata records	FY17-Q4
Agency and/or Stakeholder	Activities Through FY17-Q4			
Census Bureau	2.2.5. All of the Census Bureau's 34 NGDAs in this theme have documented geospatial web services using a standalone Service Identification Record.			
IBWC	2.2.5. No activity to report.			
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	2.2.5. No expectations to make any changes to the data standard / data set this fiscal year aside from quarterly updates for changes to the Administrative Unit Codes and/or Names (e.g. small adjustments to the values and/or boundaries).			
EPA Facility Locations and Regional Boundaries Dataset Manager	2.2.5. No activity to report.			
IBC	2.2.5. No activity to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
2.2.6. CSDGM metadata developers must document their geospatial web services using the distribution section the NGDA Metadata Guidance. Failure to do so will result in the inability of the Geospatial Platform to identify and promote the service.	All CSDGM metadata records documented their geospatial web services per the NGDA Metadata Guidance.	Number of datasets with CSDGM metadata records completed.	Dataset Managers and Program Managers with CSDGM metadata records	FY17-Q4
Agency and/or Stakeholder	Activities Through FY17-Q4			
HUD Entitlement Grantee Jurisdiction Dataset Manager	2.2.6. No activity to report.			
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	2.2.6. No expectations to make any changes to the data standard / data set this fiscal year aside from quarterly updates for changes to the Administrative Unit Codes and/or Names (e.g. small adjustments to the values and/or boundaries).			
EPA Facility Locations and Regional Boundaries Dataset Manager	2.2.6. No activity to report.			

Strategic Goal 3 – Coordinate the Governmental Units, and Administrative and Statistical Boundaries Theme among stakeholders.				
<p>Objective 3.1: National Boundary Group (NBG), formally designated as an FGDC working group in 2014, leads the development of nationally consistent boundaries that are integrated using the same geographic base. Federal boundary sources will be consistent, accurate, and integrated.</p> <p>Anticipated Outcomes: Participating federal agencies achieve currency, accuracy, consistency, accessibility, interoperability with all boundary datasets through collaborative opportunities. FGDC subcommittees and subgroups that collaborate participate with in the NBG, maintain and access high-quality boundary datasets. Identify authoritative sources and authoritative integrators for boundary data including but not limited to tribal areas, federal land boundaries, state lines, county lines, maritime boundaries, and international boundaries.</p> <p>Agencies, Bureaus, and Offices Involved: National Boundary Group (NBG) and the Census Bureau’s Spatial Data Collection and Products Branch</p>				
Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
3.1.1. Conduct quarterly meetings of the National Boundary Group (NBG). Continue to provide an open forum for the exchange of ideas to improve the overall management and availability of boundaries in federal datasets.	Meeting occurs each quarter.	Publication of meeting minutes.	NBG Lead	FY21-Q4
Agency and/or Stakeholder	Activities Through FY17-Q4			
NBG Lead	3.1.1. The NBG met in FY17-Q3; meeting minutes documented progress on the GeoPlatform’s Governmental Units Community Pages for the NBG, Tribal Boundaries Subgroup, and Federal Lands Workgroup, as well as workgroup and subgroup activities during this period (see the activities reported for Action 3.1.2.).			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
3.1.2. Identify collaborative opportunities with tribal, federal, state, county, and local governments regarding consistent boundaries and datasets.	Identify new collaborative opportunities with federal agencies.	Number of collaborative opportunities identified.	NBG Lead	FY21-Q4
	Identify new collaborative opportunities with tribal governments.	Monthly meetings of the Tribal Boundary Subgroup.	NBG Lead	FY21-Q4
Agency and/or Stakeholder	Activities Through FY17-Q4			
NBG Lead	<p>3.1.2. The NBG continued collaboration with the Cadastral Subcommittee and the Dataset Managers for the PAD-US dataset to identify boundaries coincident with cadastral features such as parcels and the public land survey system. The U.S. Census Bureau has continued using the results of this activity for the Boundary Quality Assessment and Reconciliation Project (BQARP) through FY17. The NBG continued discussions about the availability of military lands from the Department of Defense and the U.S. Army Corps of Engineers to the public and other federal agencies.</p> <p>The significant NBG goals identified for 2018 include:</p> <ol style="list-style-type: none"> 1. The NBG will hold regularly scheduled meetings to summarize progress of ongoing tasks. 2. The U.S. Census Bureau will continue to provide quarterly updates on the BQARP. 3. The Federal Lands Workgroup (FLWG) will improve the efficiency of annual federal lands data aggregation and integration for the PAD-US through source data documentation and continued outreach to state and local governments. 4. The Tribal Boundaries work group is taking actions to finalize their charter, and continue to document how agencies use tribal boundary data, what data quality is required, and the desired boundary attributes. 5. The U.S. Census Bureau will continue to update the international boundaries in the MTDB using IBC and IBWC boundaries. 			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
3.1.2. (cont.) Identify collaborative opportunities with tribal, federal, state, county, and local governments regarding consistent boundaries and datasets.	Identify new collaborative opportunities with state, county, and local governments. (See Action 1.1.2.)			
Agency and/or Stakeholder	Activities Through FY17-Q4			
NBG Lead	3.1.2. NBG identified these challenges and opportunities for 2018: 1. Outreach to federal agencies that consume or produce datasets that define or affect boundaries to: a. Reduce duplication of effort; and b. Increase the overall quality of shared boundary data. 2. Continue to provide an open forum for the exchange of ideas to improve the overall management and availability of boundaries in federal datasets. 3. Identify collaborative opportunities with tribal, federal, state, and local governments to share accurate boundary data.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
3.1.3. Collect locally sourced data with tribal, federal, state, county, and local partners to update the theme's boundary datasets where necessary.	Coordinate with international partners (IBC & IBWC) to receive their data updates (see Action 1.4.6)	Number of datasets collected for individual states along the U.S./Canada, and U.S./Mexico borders.	NBG Lead	FY21-Q4
	Collect locally sourced data with federal, state, county, and local partners.	Percentage of datasets collected from respondents with no changes recorded.	NBG Lead	Q3 each year
		Percentage of datasets collected from respondents with changes recorded.	NBG Lead	Q3 each year
Agency and/or Stakeholder	Activities Through FY17-Q4			
NBG Lead	<p>3.1.3. As of July 28, 2017, the response rate was 91%. Approximately 63% of these participants recorded no changes to their datasets and 28% of these participants reported changes to their datasets.</p> <p>The International Boundary Commission (IBC) and the International Boundary and Water Commission (IBWC) updated the NBG on their work improving the international boundaries with Canada and Mexico. The NBG continued its collaboration with the U.S. Census Bureau, IBC, and IBWC to update the international boundaries in the MTDB.</p>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
3.1.4. Maintain and facilitate charter goals of the NBG subgroups (Tribal Boundaries Subgroup, Federal Lands Working Subgroup).	Create and then annually review goals of the Tribal Boundaries Subgroup for currency.	Number of goals retired as completed or no longer relevant.	NBG Lead	Q4 each year
		Number of new goals identified.	NBG Lead	Q4 each year
	Annually review goals of the Federal Lands Working Subgroup for currency.	Number of goals retired as completed or no longer relevant.	NBG Lead	Q4 each year
		Number of new goals identified.	NBG Lead	Q4 each year
Agency and/or Stakeholder	Activities Through FY17-Q4			
NBG Lead	<p>3.1.4. The Tribal Boundaries Subgroup:</p> <ul style="list-style-type: none"> added representatives from federal agencies, private industry, tribal organization, and federally recognized tribes to their membership roster; hosted presentations from the Bureau of Indian Affairs, Federal Lands Working Group, Bureau of Land Management; published presentations and meeting notes on the GeoPlatform. <p>The Federal Lands Working Group (FLWG):</p> <ul style="list-style-type: none"> developed data standards and organizational strategies for federally owned lands with the publication of their aggregated federal lands geodatabase from the Protected Areas Database of the United States (PAD-US) (see Activities reported for 3.3.2, and 3.3.3); created an online tool for the interactive review and integration of federally managed land and published a new update of PAD-US version 2.0 in September 2017; increased stakeholder activities through outreach activities such as the plenary sessions and map gallery displays at the July 2017 Esri Users Conference in San Diego for the GIS community (see Activities reported for 3.3.8); published presentations and meeting notes on the GeoPlatform. 			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
3.1.5. Collaborate with the Cadastral Subcommittee to identify where boundaries are coincident with cadastral features.	All coincident boundaries identified.	Number of coincident boundaries miles identified.	NBG Lead	Completed
Agency and/or Stakeholder	Activities Through FY17-Q4			
NBG Lead	3.1.5. Action Completed. 77,737 miles of county boundaries and 9,928 miles of state boundaries are identified as coincident.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p>3.1.6. Collaborate with the Cadastral Subcommittee on BQARP activities. The Census Bureau reconciles the legal documents (or descriptions) against the Census Bureau spatial boundaries data and cadastral data such as Public Land Survey System (PLSS) and parcel data.</p> <p>3.1.7. The National Boundary Group will coordinate with the Marine and Coastal Spatial Data Subcommittee of the Water–Oceans and Coasts Theme to establish and publish standards and specifications for marine and coastal spatial data, and establish priorities for marine and coastal spatial data collection, processing, and dissemination.</p>	All boundaries reconciled.	Number of miles of boundary reconciliations by BQARP each year.	NBG Lead	Q4 each year
	All standards and specifications established and published.	Number of standards and specifications established and published.	NBG Lead	FY21-Q4
	Data collection priorities established.	Number of data collection priorities identified.	NBG Lead	FY21-Q4
Agency and/or Stakeholder	Activities Through FY17-Q4			
NGB Lead	<p>3.1.6. The NBG continued collaboration with the cadastral subcommittee and the PAD-US dataset manager to identify boundaries coincident with cadastral features such as parcels and the public land survey system. The U.S. Census Bureau has continued using the results of this activity for the Boundary Quality Assessment and Reconciliation Project (BQARP) through FY17.</p>			
NGB Lead	<p>3.1.7. No activity to report.</p>			

<p>Objective 3.2: The Tribal Boundaries Subgroup, formally designated as a NBG working group in 2015, identifies the data and communication needs for agencies and governments using tribal boundary data. These agencies include the Tribal governments, Department of Interior (DOI), the Census Bureau, Federal Emergency Management Agency (FEMA), and Forest Service (USFS).</p> <p>Anticipated Outcomes: The Tribal Boundaries Subgroup documents tribal land and boundary data use, data quality requirements, and boundary attribute needs for all federal agencies, governments, and institutions. Online resource of meeting notes, documents, presentations, and upcoming events maintained and distributed to members on a regular basis.</p> <p>Agencies, Bureaus, and Offices Involved: Tribal Boundaries Workgroup</p>				
Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p>3.2.1. Maintain approved charter goals of the recently established Tribal Boundaries Workgroup.</p>	See Action 3.1.4.		Tribal Boundaries Workgroup Lead	
<p>3.2.2. Identify uses of tribal boundary data for all federal agencies. Geospatial resources include legal tribal land boundary data, tribal statistical areas (for data collection, tabulation, and analysis), and a FEMA Tribal Consultation database (with emergency contacts, grants, assistance, programs, and major disaster declarations).</p>	All federal agencies surveyed.	<p>Number of federal agency responses to survey.</p> <p>Number of uses and need identified.</p>	<p>Tribal Boundaries Workgroup Lead</p> <p>Tribal Boundaries Workgroup Lead</p>	<p>Q4 each year</p> <p>Q4 each year</p>
<p>3.2.3. Facilitate regular meetings of the Tribal Boundaries Workgroup as a platform for federal agencies and tribal governments to document needs for data quality and boundary attributes.</p>	All meetings occur as scheduled.	Meeting minutes document needs for data quality and boundary attributes.	Tribal Boundaries Workgroup Lead	Monthly
Agency and/or Stakeholder	Activities Through FY17-Q4			
Tribal Boundaries Workgroup Lead	<p>3.2.2. 2 Federal agencies responded out of 16 surveyed in FY17-Q1. Survey is still open. 14 uses and needs identified from the surveys. No further actions in FY17-Q4.</p>			
Tribal Boundaries Workgroup Lead	<p>3.2.3. Monthly meetings were held during FY17-Q3 and FY17-Q4. September 2017 meeting was postponed by presenter.</p>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
3.2.4. Create an instructional resource to document legislation or program criteria for tribal boundaries.	Research and gather legislation and/or program criteria.	Number of sources checked for material.	Tribal Boundaries Workgroup Lead	FY21-Q4
	Construction of an instructional resource.	Number of pieces of legislation and criteria documented.	Tribal Boundaries Workgroup Lead	FY21-Q4
	Define and document geospatial datasets.	Number of geospatial datasets documented.	Tribal Boundaries Workgroup Lead	Q4 each year
3.2.5. Define and document datasets of tribal lands and boundaries, population and economic data, mineral resources, and criteria for programs, where appropriate.				
Agency and/or Stakeholder	Activities Through FY17-Q4			
Tribal Boundaries Workgroup Lead	3.2.4. No activity to report.			
Tribal Boundaries Workgroup Lead	3.2.5. No activity to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
3.2.6. Document responsible authority or authoritative sources for tribal lands and boundaries datasets.	Documentation completed.	Number of sources documented.	Tribal Boundaries Workgroup Lead	FY21-Q4
3.2.7. Discuss ways that agencies can collaborate, reduce duplication, and share tribal boundary information.	Topic is focus of at least one working group meeting per year.	Potential collaboration opportunities identified.	Tribal Boundaries Workgroup Lead	Q4 each year
3.2.8. Coordinate collection, verification, and publication of authoritative legal, statistical, and boundary data on American Indian Land for use by tribal governments and other federal, state, county, and local agencies (i.e. Reservation and Trust Land Boundary Inventory and Update).	Collect authoritative data.	Number of authoritative datasets collected.	Tribal Boundaries Workgroup Lead	FY21-Q4
	Verify authoritative data.	Number of authoritative datasets verified.	Tribal Boundaries Workgroup Lead	FY21-Q4
	Publish authoritative data, where possible.	Number of authoritative datasets published.	Tribal Boundaries Workgroup Lead	FY21-Q4
Agency and/or Stakeholder	Activities Through FY17-Q4			
Tribal Boundaries Workgroup Lead	3.2.6. No activity to report.			
Tribal Boundaries Workgroup Lead	3.2.7. No activity to report.			
Tribal Boundaries Workgroup Lead	3.2.8. No activity to report.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
3.2.9. Support a Tribal Nations Community on the GeoPlatform.	Post the Tribal Nations Community URL on the Tribal Boundaries Workgroup Community Page.	Tribal Boundaries Workgroup Community Page is updated.	Tribal Boundaries Workgroup Lead	Q2 and Q4 each year
Agency and/or Stakeholder	Activities Through FY17-Q4			
Tribal Boundaries Workgroup Lead	3.2.9. Community webpage created and maintained on the GeoPlatform.			

<p>Objective 3.3: The Federal Lands Working Subgroup (FLWG) develops a data standard and the organizational strategies for the aggregation of federally owned lands in a spatial database.</p> <p>Anticipated Outcomes: Federal agencies achieve currency, accuracy, consistency for federal land areas information and use or generate new data without duplication. Alignment with applicable agency business plans (i.e., Bureau of Land Management, Environmental Protection Agency, National Park Service, U.S. Forest Service, U.S. Geological Survey) to access, update and publish federal land areas data.</p> <p>Agencies, Bureaus, and Offices Involved: FLWG Lead, Board on Geographic Names (BGN), and USGS</p>				
Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p>3.3.1. Continue collaborative testing and refinement of the Protected Areas Database of the U.S. (PAD-US) Data Standard through the FLWG for an aggregated Federal Lands Geodatabase that contributes to the PAD-US, published by USGS.</p> <p>3.3.2. Maintain the PAD-US, a geodatabase developed by the USGS, Core Science Systems (PAD-US 1.4 published May 2016) in collaboration with the FLWG. Improve data compatibility within the PAD-US geodatabase with documented source data files and field mapping.</p>	PAD-US Data Standard published with FGDC endorsement.	Number of publication steps completed.	FLWG Lead	FY18-Q4
	Automated federal land updates.	Number of required agencies that have automated the translation of updated source data to the PAD-US format.	FLWG Lead	Q4 each year
	Annual PAD-US publication.	Number of files and maps received and processed to improve compatibility.	FLWG Lead	Q4 each year
Agency and/or Stakeholder	Activities Through FY17-Q4			
FLWG Lead	3.3.1. FGDC approval process pending USGS publication (in progress).			
FLWG Lead	3.3.2. USGS Core Science Systems will release the PAD-US 2.0 update in December 2017 to reflect federal lands owned and managed by the respective agencies and 12 state lands (among other updates). The FLWG reviewed the first DRAFT Federal Areas Geodatabase for PAD-US 2.0 (June 22, 2017 version). USGS incorporated comments and transferred attributes not managed by agencies (for example, conservation and recreation measures) from PAD-US 1.4. Final review by FLWG to be completed by October 11, 2017.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
3.3.3. Aggregate federal land ownership and management designations from authoritative sources to meet common agency needs, and deliver to USGS for publication of PAD-US in a multiple feature class structure to better manage overlaps.	Best available ownership and management designations collected.	Increases in the estimates of current inventory completeness.	FLWG Lead & USGS	Q4 each year
	Multiple feature class structure published.	Number of agencies that submit data to USGS for PAD-US in multiple feature class structure: "Fee", "Designations", and "Easements".	FLWG Lead & USGS	FY21-Q4
Agency and/or Stakeholder	Activities Through FY17-Q4			
FLWG Lead	3.3.3. FLWG agencies have reviewed the plan for PAD-US 2.0 update, indicating whether updated data are available or if no changes are required. Three agencies (US Forest Service, National Park Service and US Fish & Wildlife Service) have submitted data in the PAD-US 2.0 multiple feature class structure. Bureau of Land Management (BLM), Natural Resources Conservation Service (NRCS), Department of Defense (DoD), Bureau of Ocean Energy Management (BOEM) and National Oceanic and Atmospheric Administration (NOAA) submitted updates that required translation. United States Bureau of Reclamation (USBR), and United States Army Corps of Engineers (USACE), requested data transferred from PAD-US 1.4, while BIA requested American Indian Lands Boundaries removed from PAD-US 2.0.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
3.3.4. Evaluate federal naming standards to improve the federal theme in PAD-US.	Evaluate all federal naming standards (Board on Geographic Names (BGN), PAD-US Standard).	Number of agencies that submit "Unit Name" and follow established standards (PAD-US and BGN).	FLWG Lead & BGN Lead	FY21-Q4
3.3.5. Complete boundary adjudication effort with all applicable sources and agencies to reduce topology errors (overlaps and gaps) between agency datasets.	Assess "Fee" topology errors.	Number of agencies that collaborate to reduce topology errors.	FLWG Lead	FY21-Q4
	Adjudication completed.	Area of topology overlap errors reduced.	FLWG Lead	FY21-Q4
Agency and/or Stakeholder	Activities Through FY17-Q4			
FLWG Lead	3.3.4. US Forest Service, US Fish & Wildlife Service, and National Parks Service have made some corrections to better align with standards.			
FLWG Lead	3.3.5. Limited activity. US Forest Service and US Fish & Wildlife Service have made some corrections to source data. The new PAD-US 2.0 database structure significantly reduces overlaps within the federal theme in the "Fee" ownership feature class (goal). USGS also assessed overlaps between federal and state lands. Action is underway to remove state overlaps from federal fee area to achieve topology related goals. Additional edits are expected in FY18-Q2.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
3.3.6. Review the draft PAD-US Standards Manual to improve the efficiency and effectiveness of federal land updates and ensure stakeholder needs are met. 3.3.7. Develop and publish source data documentation to identify the data sources aggregated from applicable agencies and field mapping for Federal Land Geodatabase update in PAD-US format.	Review completed.	Percentage of manual reviewed.	FLWG Lead	FY21-Q4
	All federal stakeholders endorse manual.	Number of stakeholders that endorse the manual.	FLWG Lead	FY21-Q4
	Develop source data documentation.	Number of sources contacted.	FLWG Lead	FY21-Q4
	Publish source data documentation.	Number of source files that describe documentation reviewed by agencies.	FLWG Lead	FY21-Q4
Agency and/or Stakeholder	Activities Through FY17-Q4			
FLWG Lead	3.3.6. No activity to report.			
FLWG Lead	3.3.7. Updates to Source Data Documentation for PAD-US 2.0 are in progress. All agencies have confirmed source files for aggregation; field mapping review is in progress.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
3.3.8. Document common agency needs for PAD-US.	Biannual collection of common agency needs.	Number of agencies contacted.	FLWG Lead	FY17-Q4; FY19-Q4; FY21-Q4
	Documentation completed.	Number of needs validated.	FLWG Lead	FY17-Q4
	Common agency needs communicated to USGS as publisher of PAD-US.	USGS acknowledges receipt of documentation on common agency needs from FLWG.	FLWG Lead	FY17-Q4
Agency and/or Stakeholder	Activities Through FY17-Q4			
FLWG Lead	3.3.8. Partial activity. PAD-US 2.0 stakeholder list reviewed by FLWG. Specific agency needs to be reviewed by FLWG on November 8, 2017.			

Objective 3.4: Continue collaboration between Census Bureau, the International Boundary Commission (IBC) and the International Boundary and Water Commission (IBWC) to complete the update of all international boundaries in Census Bureau’s Digital Geographic Database of the United States.

Anticipated Outcomes: Census Bureau will have an accurate depiction of international boundaries of the United States for use by all those who need it.

Agencies, Bureaus, and Offices Involved: IBC & IBWC

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
3.4.1. Update international boundaries in the MTDB through continued agency collaboration, meetings, and webinars between the Census Bureau, the International Boundary Commission (IBC), the International Boundary and Water Commission (IBWC), and the US Geological Survey (USGS).	See Action 1.4.6.			
3.4.2. Release IBC changes to international boundary. Update as needed.	Updates published as needed.	Number of updates published.	IBC	FY21-Q4
3.4.3. Incorporate recently resurveyed monument data from the US and Mexico border.	Data incorporation completed.	Percentage of data incorporation completed.	IBWC	FY18-Q4
	Release preliminary maps.	Percentage of maps released.	IBWC	FY18-Q4
Agency and/or Stakeholder	Activities Through FY17-Q4			
IBC	3.4.2. No activity to report.			
IBWC	3.4.3. No activity to report.			

<p>Objective 3.5: The Governmental Units, and Administrative and Statistical Boundaries Theme community leverages the GeoPlatform to increase community membership and facilitate dataset management and communication across the theme.</p> <p>Anticipated Outcomes: The Geospatial Platform (GeoPlatform) supports new and innovative web mapping services and tools, shared applications, visualization, and continuing improvements to geospatial data to increase use by all tribal governments, federal agencies, state, county, and local governments, academia, and the public.</p> <p>Agencies, Bureaus, and Offices Involved: Theme Lead, NBG Lead, FLWG Lead, and the Tribal Boundaries Workgroup Lead</p>				
Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p>3.5.1. The Governmental Units Theme will develop and maintain both public and private webpages for all established working groups and subgroups within the theme (i.e. Tribal Boundaries Workgroup and Federal Lands Working Subgroup) on the GeoPlatform.</p> <p>3.5.2. Encourage and support all working group members to establish GeoPlatform accounts. Ensure that members have the appropriate level of access to the webpages on the GeoPlatform.</p>	All webpages published and up-to-date.	Number of webpages published and up-to-date.	Theme Lead	Q2 and Q4 each year
	All current group members contacted.	Number of group members contacted.	Theme Lead	FY21-Q4
	All group members with accounts have correct level of access.	Number of accounts with correct level of access.	Theme Lead	FY21-Q4
Agency and/or Stakeholder	Activities Through FY17-Q4			
Theme Lead	3.5.1. 5 of 5 webpages are published.			
Theme Lead	3.5.2. The members of the National Boundaries Group continue to be encouraged to establish GeoPlatform accounts. As of end of FY17-Q4, all 33 group members have the correct level of access.			

Table 5. Theme Implementation Plan.

Appendix A: Geographic Programs Timeline (Census Bureau)

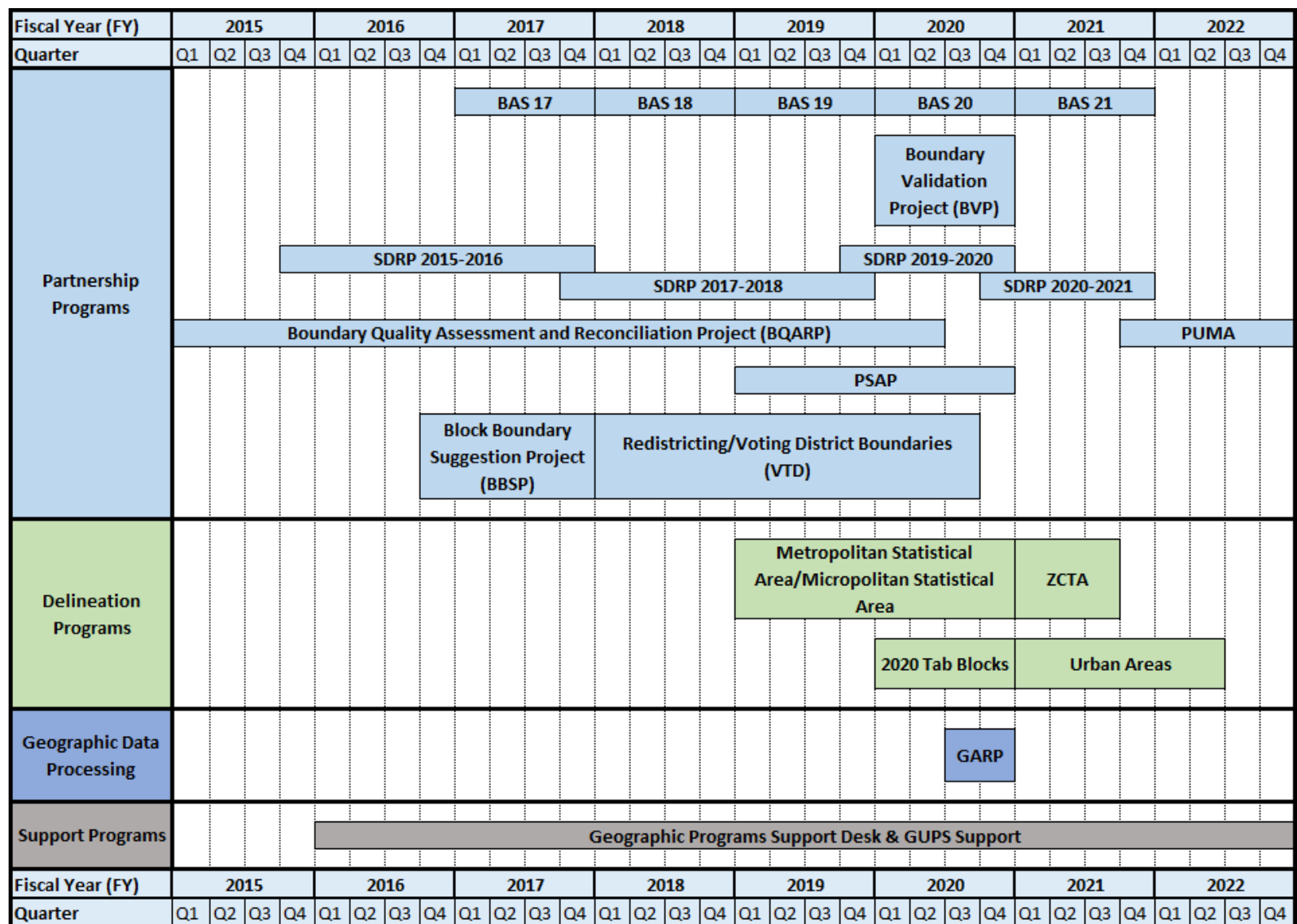


Figure A-1. Geographic Programs Timeline (Census Bureau).

Appendix B: Glossary of Terms and Acronyms

ACRONYM	MEANING
ACS	American Community Survey
AIANNH	American Indian/Alaska Native/Native Hawaiian
ANRC	Alaska Native Regional Corporation
API	Application Program Interface
BAS	Boundary and Annexation Survey
BBSP	Block Boundary Suggestion Project
BCU	Basic Collection Unit
BGN	Board on Geographic Names
BIA	Bureau of Indian Affairs
BLM	Bureau of Land Management
BQARP	Boundary Quality Assessment and Reconciliation Project
BVP	Boundary Validation Program
CCD	Census County Division
CDBG	Community Development Block Grant
CDP	Census Designated Place
CRVRDO	Census Redistricting and Voting Rights Data Office
CSDGM	Content Standard for Digital Geospatial Metadata
DLG	Digital Line Graph
DOI	Department of Interior
EPA	Environmental Protection Agency
FEMA	Federal Emergency Management Agency
FGDC	Federal Geographic Data Committee
FLWG	Federal Lands Working Subgroup
FTE	Full-time equivalent
FY	Fiscal Year
GARP	Geographic Area Reconciliation Project
GUPS	Geographic Update Partnership Software
HUD	Housing and Urban Development

ACRONYM	MEANING
IBC	International Boundary Commission
IBWC	International Boundary and Water Commission
ISO	International Organization for Standardization
JSON	JavaScript Object Notation
LMA	Lifecycle Maturity Assessment
MAF/TIGER	Master Address File/Topologically Integrated Geographic Encoding and Reference System
MOU	memorandum of understanding
MTDB	MAF/TIGER Database
NBG	National Boundaries Group
NCES	National Center for Education Statistics
NECTA	New England City and Town Area
NGDA	National Geospatial Data Asset
NOAA	National Oceanic and Atmospheric Administration
OMB	Office of Management and Budget
PAD-US	Protected Areas Database of the United States
PCOB	Partnership Communications and Outreach Branch
PEP	Population Estimates Program
PLSS	Public Land Survey System
PSAP	Participant Statistical Areas Program
PUMA	Public Use Microdata Area
Q1, Q2, Q3, Q4	First, Second, Third, and Fourth Quarters of the Fiscal Year
RDP	Redistricting Data Program
REST	Representational State Transfer
SDRP	School District Review Program
SEHSD	Social, Economic & Housing Statistics Division
SLD	State Legislative District
TBD	to be determined
TIGER	Topologically Integrated Geographic Encoding and Reference System
TSAP	Tribal Statistical Areas Program
URL	Uniform Resource Locator
U.S.	United States

ACRONYM	MEANING
USDA	United States Department of Agriculture
USFS	United States Forest Service
USGS	United States Geological Survey
WFO	Weather Forecast Office
WFS	Web Feature Service
WMS	Web Mapping Services
VTD	Voting District
ZCTA	ZIP Code Tabulation Area
ZIP	Zone Improvement Plan

Table B-1. Acronym Definitions.